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Approval Letter
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COMPLETION DATA:

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ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P.O. Box 17544 — Salt Lake City, Utah 84117 Tel.: (801) 582-0313

March 21, 1978

Subject: An Archeological Survey in the San Rafael Desert

Locality in Emery County, Utah

Project: Cabot Corporation, 1978 - Drilling & Pipeline

Operation in Emery County, Utah

Project No.: CC-78-1

Dept. of Interior Permit: 78-Ut-014

To: Gerald Myers, Cabot Corporation, P.O. Box 1101.

Pampa, Texas 79065

Gene Day, BLM District Manager, BLM, Moab Office,

P.O. Box 970, Moab, Utah 84532

Info: Richard Fike, BLM Archeologist, BLM, University Club Bldg., 136 E. South Temple, SLC, Ut 84111

oras brug., 170 E. South Tempre, Sho, Ut 84111

Dr. David Madsen, State Archeologist, Antiquities Section, 603 E. South Temple, SLC, Ut 84114

General Information:

At the request of the Cabot Corporation, a proposed drill site, access road, and pipeline route were surveyed for archeological remains by AERC. The survey area (see attached map) was on land administered by the BLM in Emery County, Utah, about fifteen miles west of Green River. Andrew J. McDonald was the AERC staff member doing the survey, which was done on March 3, 1978. The proposed drill site, access road, and pipeline route were marked with flagged stakes by Armstrong Engineers. In addition, Mr. Gerald Myers of Cabot Corporation assisted Mr. McDonald in specifying the various areas requiring survey.

Cabot Corporation March 21, 1978 Page 2

Legal Description of Project Area (see attached map):

Township 23 South, Range 14 East, Sections 9 and 10

Institution Holding Antiquities:

Weber State College will maintain temporary storage of artifacts until a permanent repository has been developed.

Description of Survey Procedures:

A circular area about 100 yards in diameter was investigated around the drill site by walking roughly parallel transects between 5 and 10 yards apart. A zigzag course was walked along the access road and pipeline route, extending about 10 yards on either side. Archeological sites were recorded on standardized AERC forms and a topographic map, and were photographed.

Description of Findings:

One archeological site was located in the survey area. It was found on the drill pad about 35 yards south of the drill hole. Details concerning the site are as follows:

| Site Number | Site Type | Significance | Impact Expected | | |
|-----------------------|----------------|--------------|--------------------|--|--|
| 42Em1018 (AERC 99U/1) | Lithic scatter | CRES: S-4 | Direct-primary | | |

The significance rating listed here is according to the Bureau of Land Management's Cultural Resource Evaluation System (CRES).

Cabot Corporation March 21, 1978 Page 3

"CRES: S-4", the significance rating given to site 42Em1018, is the lowest CRES rating, and "is assigned only to properties that have minimal information-retrieval possibilities."

(BLM memorandum issued 1977)

Actual and Potential National Register Properties Affected by the Proposed Project:

A records check in the AERC files and at the State Antiquities Section did not reveal any additional archeological sites previously found in the survey area.

Conclusions and Recommendations:

Since the impact expected at site 42Em1018 is both direct and primary, AERC recommended that the drill site be relocated slightly. From an examination of the area, a new drill site 180 feet west of the old one was chosen. This relocation left site 42Em1018 about 13 yards beyond the southeastern edge of the drill pad. Site 42Em1018 is of marginal significance (CRES: S-4), and in a position outside the drill pad area as specified above, no impact, direct or indirect, would be expected. The client has indicated that no development will be initiated in the vicinity of the site. Additional recommendations are:

- 1. All vehicle traffic, personnel movement, and construction be confined to the locations examined and to access roads leading into the locations;
- 2. all personnel refrain from collecting individual artifacts or from disturbing any cultural resources in the area; and

Cabot Corporation March 21, 1978 Page 4

> a qualified archeologist be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate further or otherwise alter the drill pad location.

With adherence to the above recommendations and stipulations, construction activities on this project will not impair any known cultural resources, and a complete cultural resources clearance for the Cabot Corporation can be recommended by AERC.

> Andrew J. McDonald Archeologist

F. R. Hauck, Ph.D.

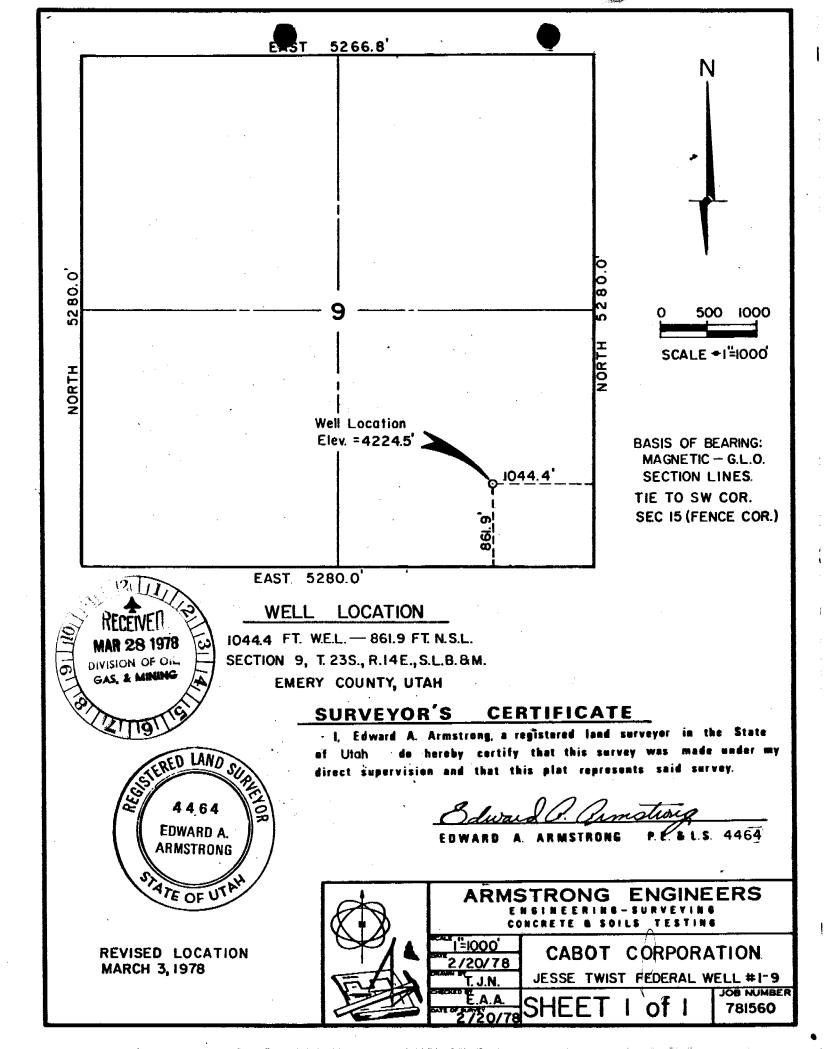
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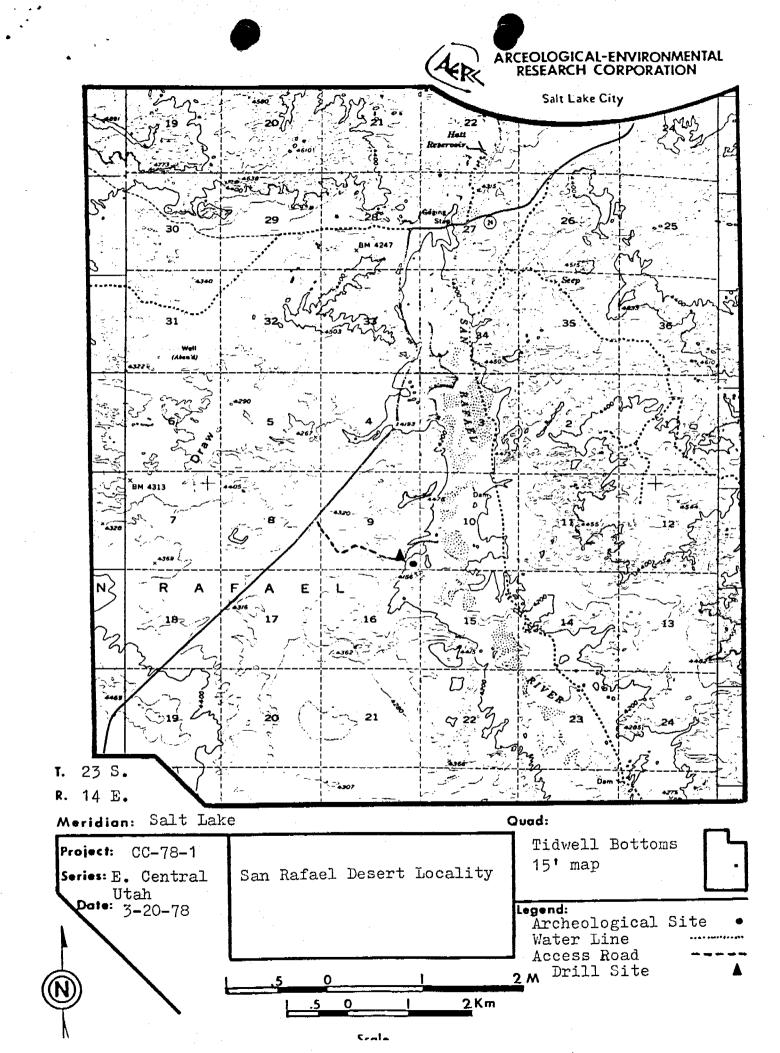
President



Form approved. Budget Bureau No. 42-R1425.

| | | OF THE INTER | RIOR | | 5. LEASE DESIGNA | ATION AND SERIAL NO. |
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| OIL X | CAS OTHER | | INGLE MULTI | PLE . | 8. FARM OR LEAS | E NAME |
| 2. NAME OF OPERATOR | | | 4 | | Jessies Tw | ist - Federal |
| Cabot Corpo | ration | | | | 9. WELL NO. | |
| | | 0065 | | ; | 10. FIELD AND PO | -9 OOL, OR WILDCAT |
| 4. LOCATION OF WELL | 101, Pampa, TX 7 | 9000 in accordance with any i | State requirements.*) | | W41 | dcat |
| At surface 861. | 9 FSL, 1044.4 FE | L į | | | 11. SEC., T., R., M | ., OR BLK. |
| At proposed prod. z | one | | | | Sec. 9, | T23S, R14E |
| 14. DISTANCE IN MILE | S AND DIRECTION FROM NEAR | REST TOWN OR POST OFFIC | E * | | S.L.B. & | |
| 19.5 miles | southwest of Gree | en River, Utah | | | Emery | Utah |
| 15. DISTANCE FROM PRO LOCATION TO NEAR | EST | 16. No | O. OF ACRES IN LEASE | | OF ACRES ASSIGNED THIS WELL | |
| | rlg. unit line, if any) | 861.9 | 2428.65 | _ | 80 | |
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| OR APPLIED FOR, ON S | whether DF, RT, GR, etc.) | None | 5300' | | Rotary 22. APPROX. DAT | TE WORK WILL START* |
| | 224.5 GR | | | 1 1 | Anril 1 | 29, 1978 |
| 23. | | PROPOSED CASING AND | D CEMENTING PROGR | AM | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | | QUANTITY OF | DEMENT |
| 14-3/4" | 9-5/8 | 32.30 | 700 | 1 | | ate to surface |
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| | the Desert Creek | k formation (Per | nnsylvanian). | | | |
| | Annahada Mudii | ldes Deserves | • | 3 | | |
| | Attached: Drill | ling Frogram Byors Plat | | | | |
| | | Control Require | ements | · - | | |
| | | L-point Surface | | achmen | ts | 백 강성설별 기기 : |
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| | | | NECESSARY FLAR | ING OF G | AS DURING DRILL | NG FITT G |
| | | | AND COMPLETION ALTY (NTL-4) | I APPROV∉ | D SUBJECT TO W | |
| | | NOTICE OF | APPROVAL | 7 | | |
| | BE PROPOSED PROGRAM: If] | proposal is to deepen or p | plug back, give data on p | | | |
| zone. If proposal is t preventer program, if : | to drill or deepen directiona any. | lly, give pertinent data o | on subsurface locations a | nd measure | d and true vertical | depths. Give blowout |
| 24. | | | | * | ÷ + + + + + + + + + + + + + + + + + + + | |
| SIGNED Shall | B. Men | TITLE D: | strict Only. + Pro | d. 5up | / DATE | 127/78 |
| (This space for Fe | deral or State office use) | | | | | |
| PERMIT NO. | | | APPROVAL DATE | 6. | <u> </u> | |
| | G. SGD.) E. W. GUY | | ISTRICT ENGINE | ER . | , | N 0 5 1070 |
| CONDITIONS OF APPR | OVAL, IF ANY: | | | | DATE | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| | ah, Department of | · | es | | 45 T | |
| | Oil, Gas, and Mini | ng | | mal(^! | ATTACHED | & \$1 ↓ |
| | North Temple | CONI | DITIONS OF APP | ROVAL | ALIAUMED | 1 |
| Salt Lake 0 | City, Utah 84116 | | TO OPERATO | R'S CO |) F Y | |





DRILLING PROGRAM CABOT CORPORATION JESSIES TWIST - FEDERAL 1-9 SECTION 9, TOWNSHIP 23S, RANGE 14E EMERY COUNTY, UTAH

1. Surface Formation Entrada Sandstone

2. Estimated Geological Tops

| Formation | Vertical Depth, Ft |
|--------------|--------------------|
| Navajo | 640 |
| Kayenta | 1100 |
| Moenkopi | 2000 |
| White Rim | 2700 |
| Organ Rock | 3195 |
| Hermosa | 4300 |
| Ismay | 5020 |
| Desert Creek | 5200 |
| Paradox | 5300 |

3. Estimated Depths at which Anticipated Oil, Gas or Other Mineral Bearing Formations are Expected to be Encountered.

Primary objectives for oil and/or gas are the Ismay and Desert Creek Formations. If these formations are not oil and/or gas bearing, they will probably carry brackish water. No other water bearing strata or important minerals are anticipated.

- 4. Casing Program
 - 0 to 700' 9-5/8" 32.30# K-55 ST&C casing (new)
 - 0 to 5300' 5-1/2" 14.00# K-55 ST&C casing (new)
- 5. Pressure Control Equipment
 (See attached diagram)
- 6. Drilling Fluids

Native mud will be used to about 2000'. From 2000', a lightly dispersed chemical mud will be used. Mud weight maximum is 9.2#/gal. Viscosity will range from 36-45 sec/qt.

7. Auxiliary Safety Equipment to be Used

- a. Kelly Cock
- b. Sub on floor with full opening valve to be stabbed into drill pipe when kelly is not in string.
- c. Mud tank levels will be visually monitored.
- d. A mud gas dectection unit, manned 24 hours a day, will be employed from 2500' to total depth.

8. Testing, Logging, Coring Program

- a. Possible core of top 50' Ismay Formation.
- b. Testing of all significant shows of oil and/or gas is planned, testing to be accomplished by open hole formation tester.
- c. Logging program shall include Dual Induction Log, Sonic Log and Gamma Ray Neutron.

 All logs will be run from the base of casing to total depth, unless prohibited by mechanical problems.
- 9. Abnormal Conditions of Potential Hazards

 Abnormal conditions or potential hazards are not expected. Estimated bottom-hole pressure is 2270 psig. Hydrogen sulfide gas in not expected.
- 10. Anticipated Starting Date of Drilling Operations

 It is anticipated that the well will commence on or about April 29, 1978, and take about 28 days to drill. There is a Farmout Agreement expiration date of May 30, 1978, and the well must be drilling on that date.

| | m: District Geolog | • | | |
|-----|--|---|---|---|
| TO: | District Engine | er, Salt Lake City, U | tah Lease No. (| U15383 |
| SUB | JECT: APD supplementa | l stipulations | • | |
| Ope | rator: | Location: | | |
| (| abot Copporation | SEL | SE % sec. 9 T. 235, | R. 14E |
| We1 | 1: 1-9 | • | SE % sec. 9 T. 235, Enery Co., Utal | 2 |
| 1. | | are adequate? Yesimportant geologic m | _, No $\underline{\hspace{1cm}}$. If not: The fo | llowing |
| ÷ | Formation | Depth | Formation | Depth |
| | | | | |
| 2. | ii yes: Surface casi | ng program may require | pelow surface casing? Yes adjustment for protection 1100 feet in the Name | or resn |
| | • | • | | •• |
| 3. | | | ole oil and gas horizons? horizons will be adequatel | |
| | | 75 A.I | Tim d 4- | Depth |
| | Unit | Depth | Unit | Depth |
| | Unit | νeptn | UNIL | Deptii |
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| 4. | Any other leasable min | nerals present? Yes | , No <u></u> /. If yes: <u>1.</u> L | ogs (|
| 4. | Any other leasable min | nerals present? Yes *) will be run through of to fee | , No <u></u> . If yes: <u>1.</u> L the t to adequately locate and | ogs (** |
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| 5. | Any other leasable minate approximate depths anticipated will be run through the feet to beds. 3. Logs (** locate and identify and the feet to beds. 3. Logs (** ** Any potential problems temperature, pressure | nerals present? Yes *) will be run through of to fee beds. 2. Lo he o adequately locate an at approximate depths nticipated s that should be brough, incompetent beds, H. | , No If yes: 1. Let to adequately locate and ogs (** at approximated identify anticipated*) will be run through the of to beds. | ogs (** identify *) te depths of adequately (e.g. abnormal |

Signed:

Date: 4-14-78

NONE

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|-----------|---|
| i | EASE U-15383 DATE 4-19-28 |
| V | WELL NO, |
| I | OCATION: 4 4, SEC. 9 T. 235 R. 14 E |
| | FIELD W: 12 Cat COUNTY & Mery STATE (Itah |
| | · · · · · · · · · · · · · · · · · · · |
| | ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B |
| | PROPOSED ACTION - |
| - | Cabot Consortion PROPOSES TO DRILL AN OIL AND |
| 9 | GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 5300 FT. TD. 2) TO CONSTRUCT A |
| _ | DRILL PAD 130 FT. X 265 FT. AND A RESERVE PIT 100 FT. X 100 FT. |
| = | 3) TO CONSTRUCT /6 FT. WIDE X 34 MILES ACCESS ROAD AND UPGRADE 0 |
| <u> </u> | FT. WIDE X O MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD. TO CONSTRU |
| Ē | GAS OIL PRODUCTION FACILITIES ON THE DISTURBED AREA FOR THE DRILL PAD |
| 4 | TRUCK TRANSPORT THE PRODUCTION THROUGH A PIPELINE TO A TIE-IN IN |
| | SECTION T. R. To Construct a temporary 2" Water Line |
| ىن ر 2 | 2. LOCATION AND NATURAL SETTING (EXISTING ENVIRONMENTAL SITUATION). |
| | (I) TOPOGRAPHY: ROLLING HILLS DISSECTED TOPOGRAPHY DESERT |
| (| OR PLAINS STEEP CANYON SIDES NARROW CANYON FLOORS DEEP DRAINAGE |
| | IN AREA SURFACE WATER |
| • | |
| - | |
| - | |
| - | |
| | (2) VEGETATION: SAGEBRUSH PINION-JUNIPER PINE/FIR FARMLAND |
| (| (CULTIVATED) NATIVE GRASSES OTHER |
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| | and the state of the |

| AMMA L | BIRDS ENDANGERED SPECIES OTHER |
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| | |
| | |
| |) LAND USE: PRECREATION PLIVESTOCK GRAZING AGRICULTURE ING INDUSTRIAL RESIDENTIAL OIL & GAS OPERATIONS |
| | |
| | |
| | LM UMBRELLA EAR Price District Oiler Gas E. A. R. Ungus SFS EAR 1975 Ut. 060-6-1 THER ENVIRONMENTAL ANALYSIS |
| 3. <u>Eff</u> | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) |
| 3. <u>Eff</u> 1) | SFS EAR 1975 CCF. 860-6-7 THER ENVIRONMENTAL ANALYSIS |
| 3. <u>Eff</u> 1) ENGINES 2) | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC |
| B. Eff 1) ENGINES 2) DISTURE 3) | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY. MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE |
| ENGINES 2) DISTURE 3) | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY. MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE ANCE AND SUPPORT TRAFFIC USE. MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND |
| 3. Eff 1) ENGINES 2) DISTURE 3) SURFACE | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY. MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE ANCE AND SUPPORT TRAFFIC USE. MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND DISTURBANCE. |
| 3. Eff 1) ENGINES 2) DISTURE 3) SURFACE 4) | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY. MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE ANCE AND SUPPORT TRAFFIC USE. MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND DISTURBANCE. TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK. |
| 3. Eff 1) ENGINES 2) DISTURE 3) SURFACE 4) | THER ENVIRONMENTAL ANALYSIS ects on Environment by Proposed Action (potential impact) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY. MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE ANCE AND SUPPORT TRAFFIC USE. MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND DISTURBANCE. TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK. |

| 1) . NOT APPROVING THE DPOSED PERMIT THE OIL AND G LEASE GRANTS THE |
|--|
| LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL |
| OIL AND GAS DEPOSITS. |
| |
| 2) Deny the proposed permit and suggest an Alternate Location to Minimize |
| ENVIRONMENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS |
| ACTION. |
| 7) 1 TO MOID |
| 3) LOCATION WAS MOVED TO AVOID |
| LARGE SIDEHILL CUTS NATURAL DRAINAGE OTHER |
| |
| 4) Build access road as 20' It wisle were nessary to avoid vehicles from being forced of access onto |
| to avoid welicles from being forced of diess. one |
| 5. Adverse Environmental Effects Which Cannot Be Avoided |
| |
| 1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES. |
| |
| 2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE. |
| |
| 3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE, |
| 4) TEMPORARY DISTURBANCE OF LIVESTOCK. |
| 5) MINOR AND SHORT-TERM VISUAL IMPACTS. |
| |
| 6) |
| |
| C DETERMANATION. |
| 6. DETERMINATION: |
| (THIS REQUESTED ACTION (BOES) (DOES NOT) CONSTITUTE A MAJOR |
| FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE SENSE OF NEPA, SECTION 102(2) (C). |
| Sill sill sill sill sill sill sill sill |
| DATE INSPECTED 4-19-78 U. S. GEOLOGICAL SURVEY |
| INSPECTOR CONSERVATION DIVISION - OIL & GAS OPERATION |
| SALT LAKE CITY DISTRICT |

Alternatives to the Proposed Action

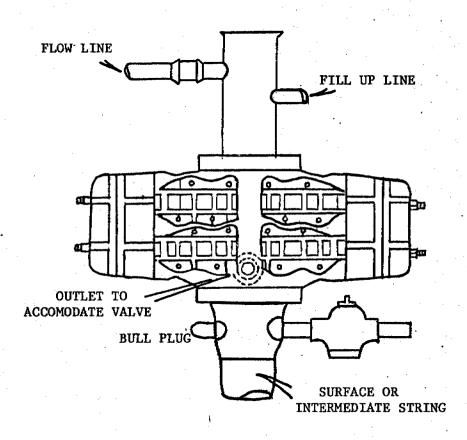
SUBMIT IN TRIPLETE* (Other instructions on reverse side)

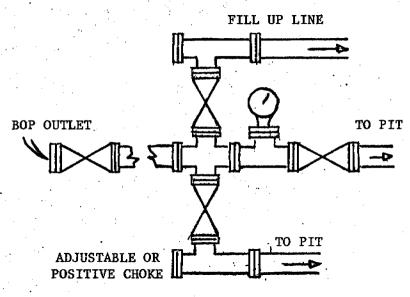
Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

| | | OF THE INTE | KIUK | | 5. LEASE DESIGNATION AND SERIAL NO |
|--|---|---|----------------------------|-------------|--|
| A DDI ICATIO | | OGICAL SURVEY | EN, OR PLUG B | ACK | 6. IF INDIAN ABIOTILE OR TRIBE NAME |
| TYPE OF WORK | N FOR PERMIT | TO DRILL, DEEP | EN, OK PLOG E | MCK. | |
| | ILL 🕎 | DEEPEN 🗌 | PLUG BA | CK 🗆 | 7. UNIT AGREEMENT NAME |
| | AS T | | HINGLE MULTIP | ьв [] | S. FARM OR LEASE NAME |
| WELL V | VELL OTHER | | ONE L. ZONE | | |
| Cabot Corpor | stien | | | | Jessies Twist - Federal |
| ADDRESS OF OPERATOR | | | | | 10. FIELD AND FOOL, OR WILDCAT |
| LOCATION OF WELL A | eppet location cleany an | 9045 d in accordance with any | State requirements.*) | <u> </u> | - 10. WILLIAM FOOL, OR WILLIAM |
| ************************************** | PSL, 1044.4 FE | L St. St | | | 11. SEC., T., M., M., OR BLK. AND SURVEY OR AREA |
| At proposed prod. zo | | ************************************** | | | Sec. 9, T238, R148 |
| DISTANCE IN MILES | AND DIRECTION FROM NEA | AREST TOWN OR POST OFFIC | | : | 12. COOMIT OR TARISH 13. STATE |
| | | | | | |
| LOCATION TO NEARES | T | en River, Utah | O. OF ACRES IN LEASE | 17. NO. | OF ACRES ASSIGNED CHIS WELLS |
| (Also to nearest drl | g. unit line, if any) | 861-9 | 2428.65 | | |
| DISTANCE FROM PROT TO NEAREST WELL, I OR APPLIED FOR, ON TE | RILLING, COMPLETED, | 19. Р | ROPOSED DEPTH | 20. ROTA | ARY OF CABLE TOOLS |
| | ether DF, RT, GR, etc.) | Hone | 53001 | 1 | 22. AFROX, DATE WORK WILL START* |
| 49 | 24.5 GB | | | | April 29, 1978 |
| ** | marior an aler mannamen | PROPOSED CASING AN | D CEMENTING PROGRA | м | my = 22 |
| SIZE OF HOLE | SIZE OF CASING | WRIGHT PER FOOT | SETTING DEPTH | | QUANTITY OF CEMENT |
| 14-3/4" | 9-5/8 | 32.30 | 7001 | 300 | ks eirculate to surfac |
| 8-3/4" | 5-1/2 | 14.00 | 5300' | 150 # | |
| 27 | Attached: Dril Surv Well | k formation (Pe ling Program eyors Plat Control Requir | • | : : | |
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CABOT CORPORATION JESSIE TWIST - FEDERAL 1-9 SECTION 9, TOWNSHIP 23S, RANGE 14E MINIMUM TESTING CONTROL EQUIPMENT AND TESTING PROCEDURES





- 1. All BOP valves and all working fittings will be in good working condition.
- 2. All valves to be 2000# W.P. or better.
- 3. After nippling up, test rams and pressure up to 1000#.
- 4. Blind rams tested every 24 hours, or when out of hole for trip if not possible each 24 hours.
- 5. All crew members will be familiarized with B.O.P.E.
- 6. Pipe rams tested every 24 hours and test recorded in drilling record book.
- 7. Keep hole full during trips.
- 8. Recheck bolts for tightness before reaching 4600'. (first possible productive zone at 5020')
- 9. When drilling use: (a) top preventer drill pipe rams, bottom preventer blind pipe rams.
- 10. When running casing use: (b) top preventer casing rams, bottom preventer blind rams.

CABOT CORPORATION JESSIES TWIST - FEDERAL 1-9 SECTION 9, TOWNSHIP 23S, RANGE 14E EMERY COUNTY, UTAH

MULTI-POINT SURFACE USE PLAN

1. Existing Roads

- a. The accompanying survey plat shows the Jessies Twist Federal 1-9 as staked by Armstrong Engineers of Grand Junction, Colorado.
- b. Route to well site is indicated on accompanying topographic map. From Green River, Utah, proceed west eleven (11) miles on Interstate 70, exit south onto Highway 24 toward Hanksville, Utah. Continue south on Highway 24 for 7.5 miles. At this point turn south and continue on planned constructed access road for 1.1 miles to well site.
- c. The attached topographic map was published prior to a change in the route of Highway 24. This change is indicated by the solid red line in Sections 26, 27 and 34 of Township 22S, Range 14E and Section 4, Township 23S, Range 14E.
- d. All existing roads within a 3-mile radius are indicated on the topographic map.
- e. All existing roads are improved roads; therefore, no maintenance shall be performed.

2. Planned Access Roads

- a. The planned access road to the location from Highway 24 is designated on the accompanying topographic map. The access road leaves the highway in the NW of Section 9 and terminates at the well site in the SE% of Section 9, Township 23S, Range 14E.
 - (1) Width The width of the road will not exceed 16' at any point.
 - (2) Maximum Grade The maximum grade is 7% which occurs at the point where the access road crosses the SE½ section line and continues east for approximately 450 feet.
 - (3) <u>Turnouts</u> One turnout is planned at the crest of the above mentioned maximum grade. At this point vehicles entering from the highway and vehicles leaving well site should be visible.
 - (4) Drainage Design No new drainage is planned.
 - (5) Location and Size of Culverts and Brief Description of any Major Cuts and Fills No culverts will be necessary. There will be no fills or cuts of significance.
 - (6) <u>Surface Material</u> Surface material will be natural, consisting of sand with some minor amounts of clay.
 - (7) Necessary Gates, Cattleguards, or Fence Cuts None required.
 - (8) Centerline Flagging of New or Reconstructed Roads Planned access road is flagged from Highway 24 to well site.

3. Location of Existing Wells

- a. There are no producing oil and/or gas wells, abandoned, temporarily abandoned, or drilling wells within a 2-mile radius of the proposed well site.
- b. There are no water wells located within a 2-mile radius of the proposed well site.

4. Location of Existing and Proposed Facilities

- a. There are no existing facilities of any kind owned or controlled by the operator within a 1-mile radius of the proposed well site.
- b. New facilities contemplated in the event of production.
 - (1) No facilities or lines are contemplated off the well pad. In the event such facilities should appear desirable in the future, an amended plan will be filed.
 - (2) Dimensions of Facilities These cannot be intelligently predicted at this time due to the fact that this exploratory well could be either a gas well or an oil well. An amended plan will be filed if such facilities are to be constructed.
 - (3) Construction Methods and Materials Only experienced oil field supervisory personnel and skilled laborers would be employed in construction of production facilities. Only new or completely reconditioned materials would be used in all phases of any production facility.
 - (4) Protective Measures and Devices to Protect Livestock and Wildlife The exact livestock and wildlife protection program would depend on equipment installed. Production facilities will be fenced, as well as any sump or pits. Permanent pits will be lined with approved materials. Any other protective measures or devices deemed appropriate for the production facilities will be employed.
- c. Plan for Rehabilitation of Disturbed Areas No Longer Needed for Operations After Construction Completed.

Topsoil will be stock piled at one end of the location. Pits will be fenced off until dry. After well has been abandoned, if dry, or production facilities completed, if a producer, and after pits have dried out, pits will be filled and levelled and topsoil distributed back across location and pit area. The operator is open to suggestions from Bureau of Land Management regarding the most efficacious reseeding plan.

5. Location and Type of Water Supply

a. Location and Type of Water Supply

Water will be obtained from the San Rafael River. Water is to be permitted by State of Utah for use.

b. Method of Transporting Water

Water will be pumped from river and transported via a temporary 2" water line to the location. (Water line indicated by a solid blue line on topographic map). The line will be laid on top of ground. The terrain from the well site to river is blow sand. A pump will be set at the river. This will be accomplished by bulldozer. There will be no disturbance of the surface due to the fact that the surface is blow sand. The proposed water line has been staked. The line will be located on Federal land in Section 9 and Section 10, Township 23S, Range 14E.

c. No water well will be drilled.

6. Source of Construction Materials

- a. No construction materials are anticipated. The drilling pad and access road will be natural and no additional materials are anticipated.
- b. It may become necessary to periodically wet down the road during drilling operations to help keep it firm. This would be done with fresh river water and sprayed on the road by a water truck.

7. Methods for Handling Waste Disposal

a. Cuttings

Cuttings will be contained in reserve pit and covered when dry.

b. Drilling Fluids

Drilling fluids will all be confined to mud tanks and reserve pit.

c. Produced Fluids

All produced fluids will be swabbed or flowed into test tank.

d. Sewage

Human waste will be contained by portable toilet on location.

e. Garbage and Other Waste Materials

An effort will be made to keep location area clean and not allow garbage and waste material to accumulate. Necessary garbage will be confined to burn pit next to reserve pit, which will be fenced by wire adequate to prevent spreading of trash by wind.

f. Cleanup Plan When Rig Moves Out

When the rig moves off location, the location and immediate area will be policed for trash and any debris as a result of drilling operations. The reserve pit, which will already be fenced on three sides, will be fenced on the fourth side until it is sufficiently dry to be covered. Any flammable material in burn pit will be ignited, and fence will remain around burn pit. When the reserve pit can be covered, fences will be removed and location levelled according to rehabilitation plan.

8. Ancillary Facilities

There will be no camps, airstrips or living facilities constructed on or near the location. Only small mobile home type trailers will be moved onto the regular location pad for supervisory personnel as offices and temporary sleeping accommodations.

9. Well Site Layout

- Living Facilities and Soil Material Stock Piles

 See attached diagram, figure 1.
- b. <u>Cross Section of Drill Pad</u>
 See attached diagram, figure 2.
- c. Rig Orientation, Parking Areas and Access Roads
 See attached diagram. figure 1.
- d. Pits will be unlined for drilling operations.

10. Plans for Restoration of Surface

- a. Backfilling, Leveling, Contouring and Waste Disposal.

 See attached diagrams, figures 3 and 4. Burn pit will be provided for trash, which will be fenced with fencing sufficiently small in gauge to prevent scattering of debris by wind. All noncombustible waste material will be buried in burn and reserve pits when they are filled and levelled.
- b. Revegetation and Rehabilitation.

 Reseeding will be accomplished subsequent to filling and leveling of reserve and burn pits and redistribution of topsoil across location. The reseeding will be according to direction of the Bureau of Land Management.
- c. Pits will be fenced in the entirety prior to moving rig from location. The fencing will not be removed until pits are dry and ready to be filled and levelled.
- d. If operations result in oil on reserve pit, oil will be pumped out prior to moving off rig. If for any reason all oil cannot be removed from pit, oil will be burned after obtaining burn permit from state.
- e. It is anticipated that drilling operations will be completed in June 1978. The pits will probably not dry out for at least a couple of months, or perhaps longer depending on the amount of rain. It is anticipated that pits should be dry by October 1978. If so, rehabilitation should commence at that time, or as soon thereafter as feasible. Reseeding will then be accomplished either immediately following the dirt work or at some alternate time recommended by the Bureau of Land Management.

11. Other Information

a. Topography

Gently rolling hills.

Soil Characteristics

Soil is very sandy. Large amounts of blow sand in the general area.

Geologic Features

The subsoil geology in the immediate vicinity is poorly consolidated sandstone.

Flora and Fanna

The vegetation in the area is sagebrush. About 80% of the area has no vegetation. There doesn't appear to be any significant grasses, even the usual desert grasses. No wildlife was observed during inspection of the area, although the usual desert creatures probably exist in the area.

- b. Surface Use Activities and Surface Ownership of All Involved Lands
 All of Section 9, Township 23S, Range 14E is owned by the U.S.
 Government, both surface and subsurface. The portion of Section
 11, Township 23S, Range 14E where the proposed water line is to be
 laid is also on U.S. Government land. The Bureau of Land Management
 is the surface owner.
- c. Water

The San Rafael River is located 2100' east of the well site. The drilling or production of this well should have no adverse effect on the ecology of this river.

d. Occupied Dwellings

There were no occupied dwellings found in the area.

e. Archaeological, Historical or Cultural Sites

The planned access road, drilling pad and proposed water line have been examined by an archaeologist with Archaeological Environmental Research Corporation of Salt Lake City, Utah. It is his opinion that no archaeological, historical or cultural sites will be disturbed by the drilling of the Jessies Twist - Federal 1-9. A written report has been forwarded to the Bureau of Land Management offices in Price and Moab, Utah.

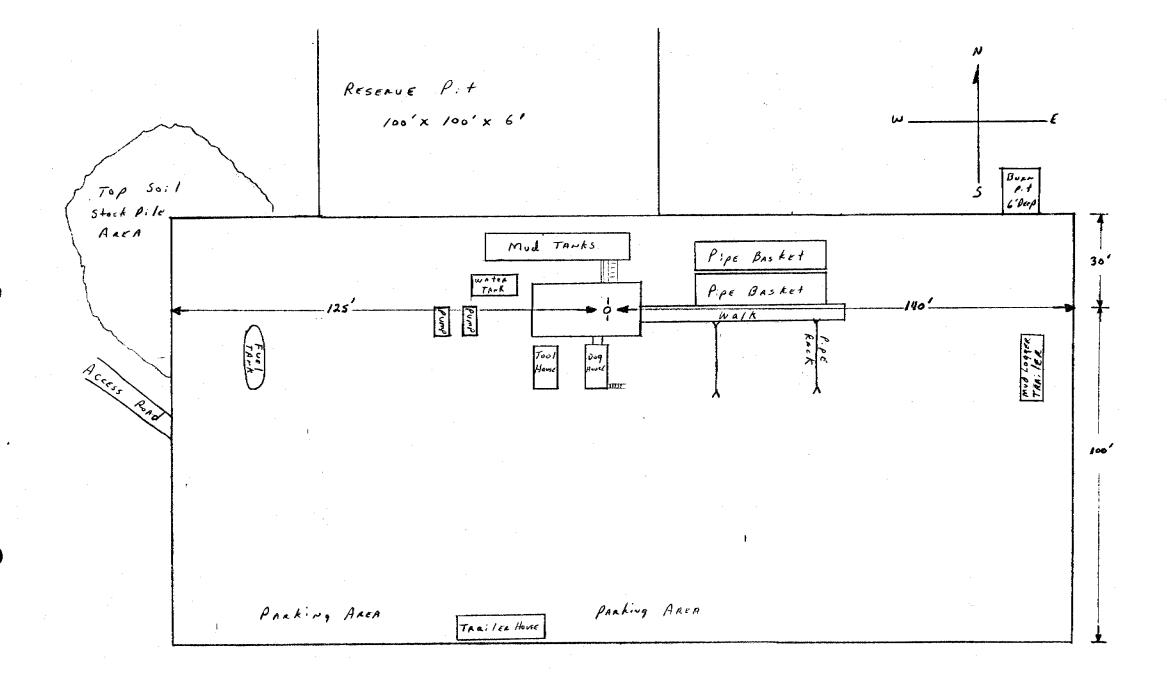
12. The Cabot Corporation representative responsible for compliance with the approved surface use and operation plan is:

Mr. Gerald B. Myers P. O. Box 1101 Pampa, Texas 79065 Phone: 806/669-2581 13. I hereby certify that I or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Cabot Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

March 23, 1978

Cabot Corporation Gerald B. Myers

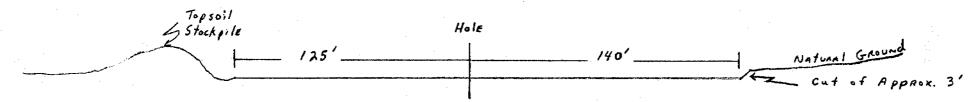
District Drilling & Production Superintendent



5 cale 1" = 30 ft

FIGURE 1

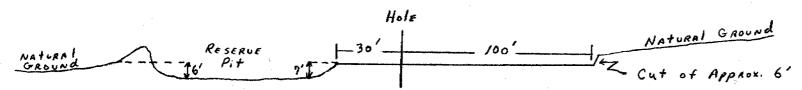
CABOT CORPORATION
JESSIES TWIST FEDERAL 1-9
SECTION 9, T23S, R14E
EMERY COUNTY, UTAH



Plan view of location looking north through Jessies Twist Federal 1-9. Cut of about 3' necessary on east side.

A North

A' South

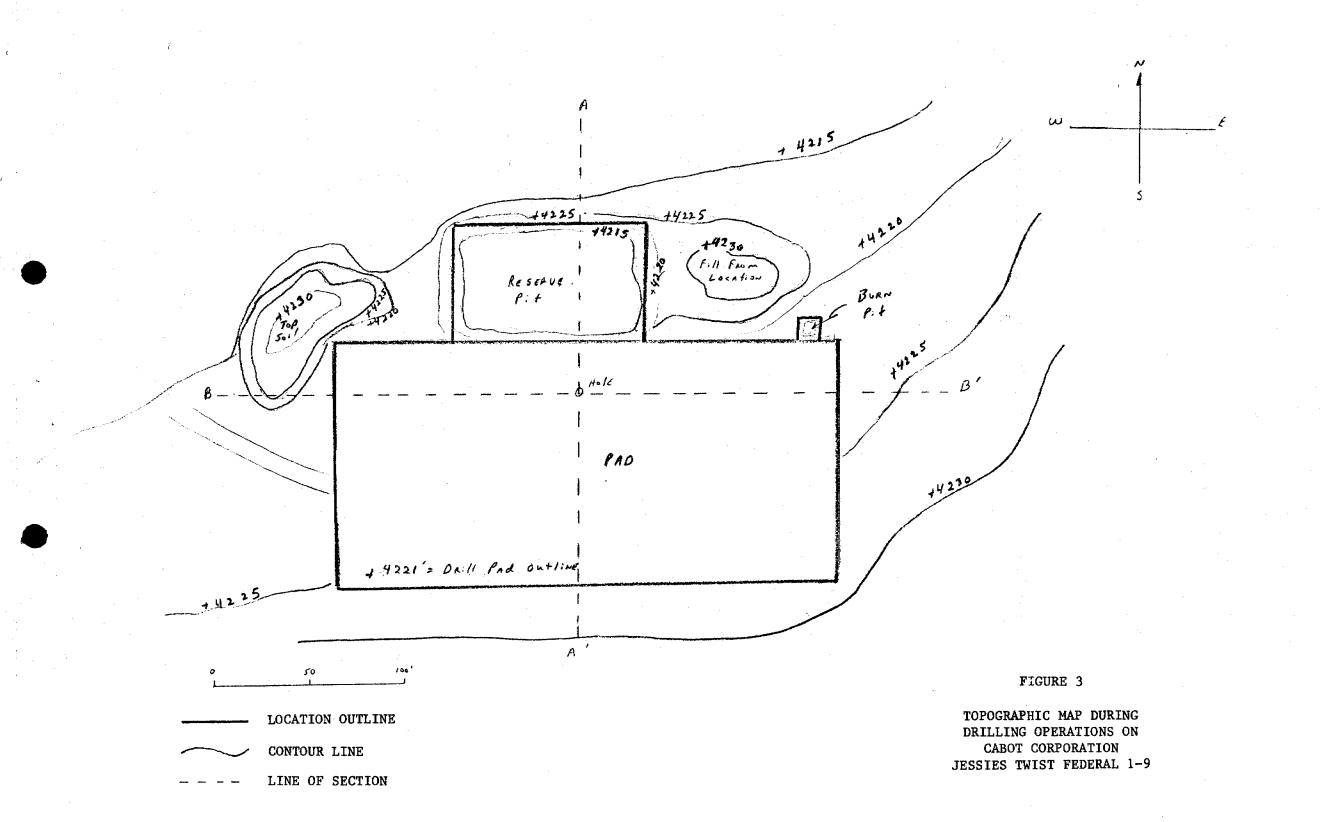


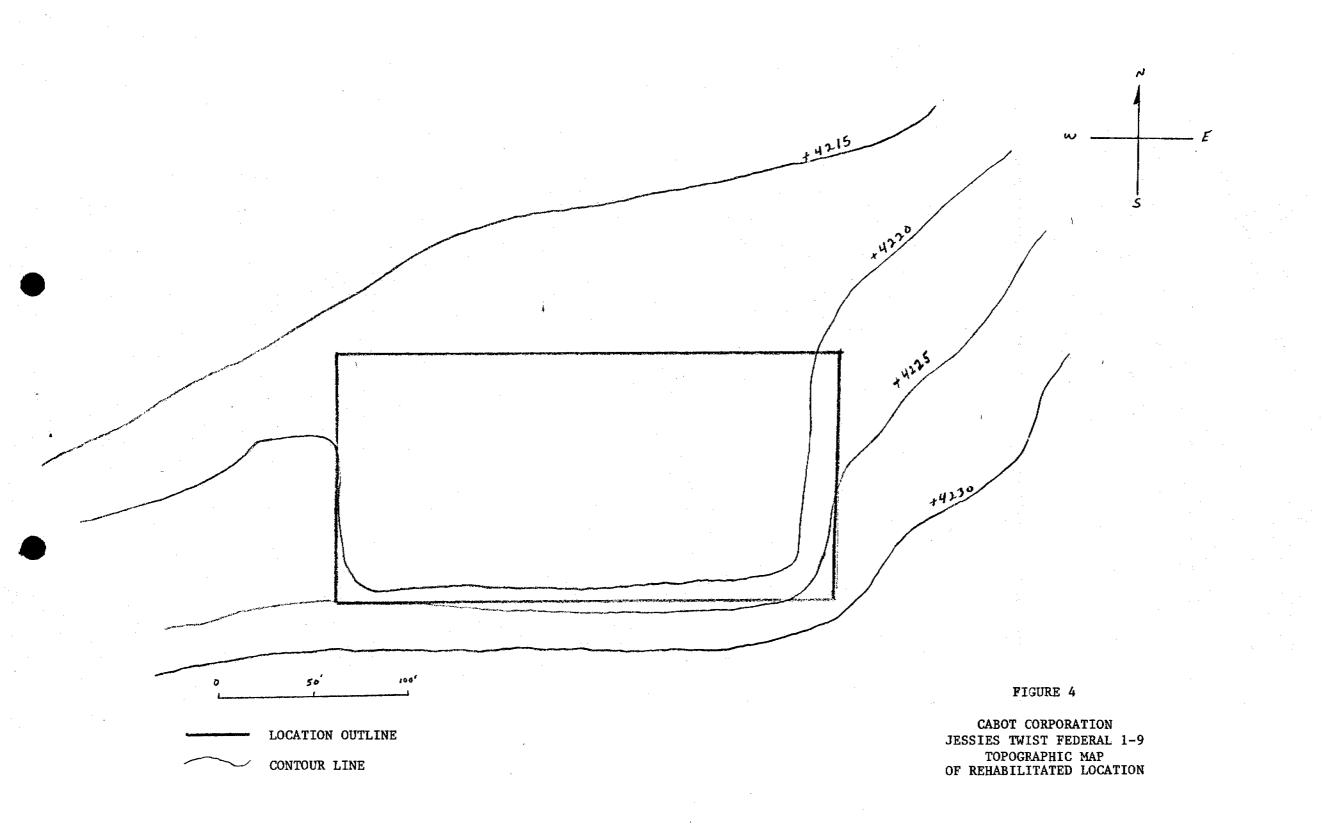
Plan view of location looking east through Jessies Twist Federal 1-9. No fill at this elevation where the rig will be sitting. Cut of about 6' necessary on south side. Reserve pit on north side 6' below natural ground level by 100' wide.

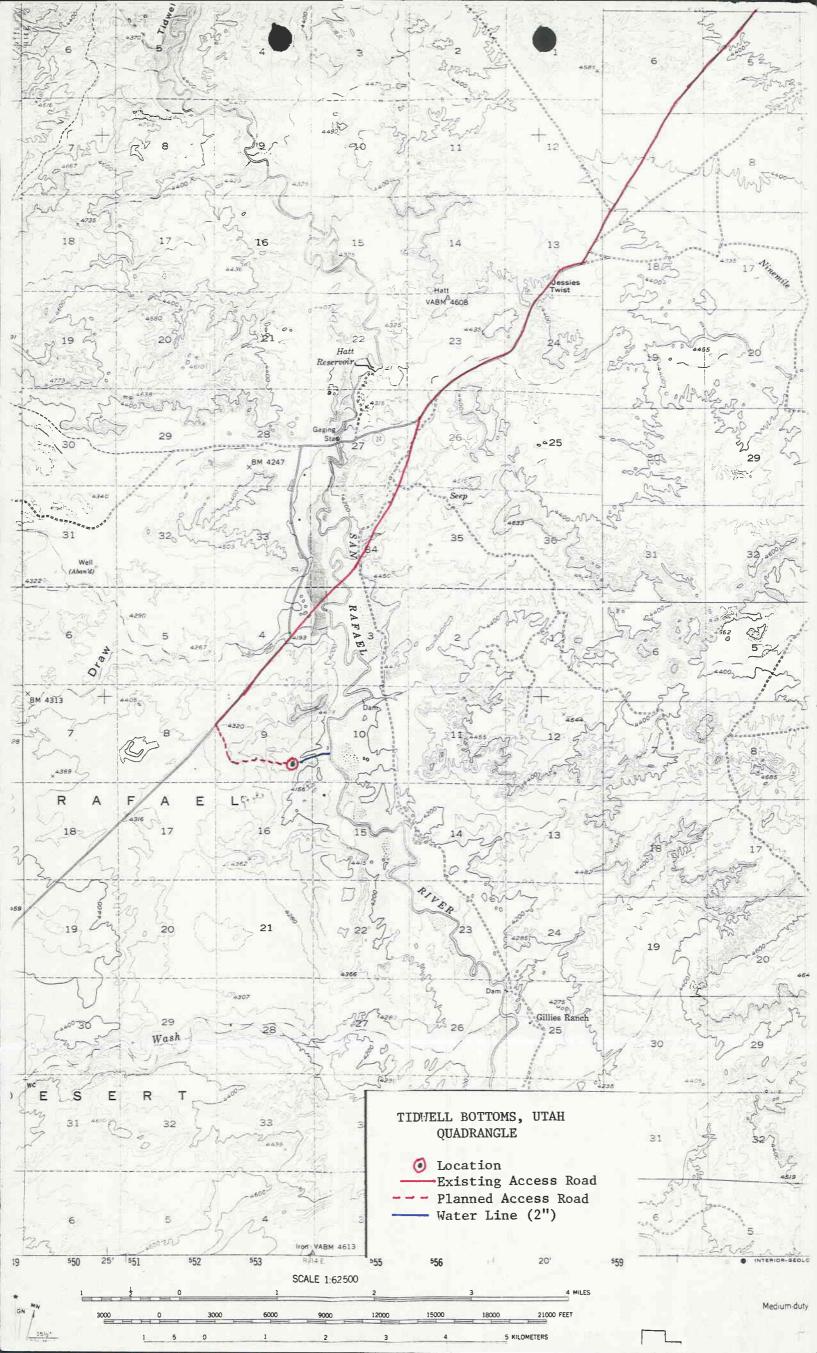
FIGURE 2

CABOT CORPORATION
JESSIES TWIST FEDERAL 1-9
SECTION 9, T23S,R14E
EMERY COUNTY, UTAH

Scale 1" = 50 Ft









COPY

CABOT CORPORATION

BOX 1101 PAMPA,TEXAS

March 27, 1978

Mr. Ed Guynn
Oil & Gas Division
U. S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah 84138

RE: Jessies Twist - Federal 1-9 Federal Lease U-15383 861.9' FSL & 1044.4' FEL Section 9, T235, R14E Emery County, Utah

Dear Mr. Guynn:

The following information is forwarded to you in triplicate:

- 1. Form 9-331C
- 2. Drilling Program
- 3. Surveyors Plat
- 4. Well Control Requirements
- 5. Multi-point Surface Use Plan and attachments

Please notify Gerald Myers, Cabot Corporation, Box 1101, Pampa, Texas, telephone 806/669-2581, Ext. 250 of the time and place for the field inspection.

Very truly yours,

Gerald B. Myers

GBM:cc

Enclosures

cc: Mr. Cleon B. Feight
State of Utah
Department of Natural Resources

** FILE NOTATIONS **

| Date: March 30 - | |
|--|---------------------------------------|
| Operator: Cabot Carpisation | |
| Well No: Jessies Wist Fed. 1 | -9 |
| Location: Sec. 9 T. 235 R. 14E County: | Lucy |
| | The state of |
| File Prepared: // Entered on N.I.D. | · // |
| Card Indexed: Completion Sheet: | |
| | _ |
| API NUMBER: 13-015-30057 | |
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| CHECKED BY: | |
| Administrative Assistant | |
| Remarks: 6 -1/0 Deher Sulls | le Sousky |
| Petroleum Engineer | , , , , , , , , , , , , , , , , , , , |
| Remarks: | |
| Director | |
| The state of the s | |
| Remarks: | • |
| INCLUDE WITHIN APPROVAL LETTER: | |
| Bond Required: Survey Plat | Required: // |
| Order No Surface Casi | |
| Rule C-3(c), Topographic exception/company owns for within a 660' radius of proposed site | controls acreage |
| O.K. Rule C-3 / O.K. In | Unit // |
| Other: | |
| | |
| Total Marieta and America | ٠. م |

CABOT CORPORATION P. O. BOX 1101, PAMPA, TEXAS 79065

CABLE ADDRESS " CABLAK" PAMPA PHONE 669 - 2581 (AREA CODE 806)

SECULOCO.

April 12, 1978

State of Utah
Oil & Gas Division
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight

RE:

Jessies Twist - Federal 1-9 Federal Lease U-15383 861.9' FSL & 1044.4' FEL Section 9, T23S, R14E Emery County, Utah

Gentlemen:

Cabot Corpor tipes equesting an exception to State Rule C-3 for spacing from the nearest lease line of an exploratory well. The above captioned well could not be located at a point 660' from the south and west line due to the large amount of blow sand located at this point.

It was found that surface damage on the said location would be excessive and, therefore, would not meet the standards of the Bureau of Land Management. A drill site at this point would have incurred the removal of large amounts of sand for an access road and drill pad.

The well was restaked at a point 861.9' FSL and 864.4' FEL of Section 9. Upon the archaeological review by Archaeological Environmental Research Corporation of Salt Lake City, Utah, an archaeological find was located at a point five feet off the south extension of the drill pad. Enclosed is a copy of this archaeological report that was sent to the Bureau of Land Management in Moab, Utah.

By reason of this archaeological find, the location had to be moved to a point 861.9' FSL and 1044.4' FEL of Section 9. At this point the drill pad can be constructed and not endanger the archaeological site.

Please notify Cabot Corporation as soon as possible on the ruling of the exception to State Rule C-3. If additional information is needed, please contact me at the letterhead address.

Very truly yours,

Gerald B. Myers

CRM:cc

Enclosure

May 1, 1978

Cabot Corporation P.O. Box 1101 Pampa, Texas 79065

> Re: Well No. Jessies Twist 1-9 Sec. 9, T. 23 S, R. 14 E, Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-015-30057.

Very truly yours,

DIVISION OF OIL, GAS, AND MINENG

CLEON B. FEIGHT Director

cc: U.S. Geological Survey

May 23, 1978

MEMO TO FILE

Re: Cabot Corporation
Well No. Jessies Twist #1-9
SE SE Sec. 9, T. 23S., R. 14E.
Emery County, Utah

This Office was informed today the above well spudded-in at 12:00 noon. The drilling contractor is Kenai Drilling Limited and they are using their Rig #9.

PATRICK L. DRISCOLL CHIEF PETROLEUM ENGINEER DIVISION OF OIL, GAS, & MINING

PLD/ksw

August 4, 1978

Cabot Corporation PO Box 1101 Pampa, Texas 79065

Re: Well No. Twist 1-9
Sec. 9, T. 238, R. 14E
Emery County, Utah
May 1978-June 1978

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, & MINING

Tammy Edge Typist CALVIN L. RAMPTON

GORDON E. HARMSTON Executive Director, NATURAL RESOURCES

CLEON B. FEIGHT

Director



OIL, GAS, AND MINING BOARD

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Chairman

CHARLES R. HENDERSON ROBERT R. NORMAN JAMES P. COWLEY HYRUM L. LEE

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116

February 28, 1979

Cabot Corporation P. O. Nox 1101 Pampa, Texas 79065

Re: Well No. Jessies Twist 1-9
Sec. 9, T. 23S, R. 14E,
Emery County, Utah
May 1978 thru' January 1979

Gentlamon:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S.Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER RECORDS CLERK SCOTT M. MATHESON Governor

GORDON E. HARMSTON

Executive Director,

NATURAL RESOURCES

CLEON B. FEIGHT

Director



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STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771

May 25, 1979

Cabot Corporation P. O. Box 1101 Pampa, Texas 79065

Re: Well No. Cedar City Unit #1
Sec. 29, T. 36S, R. 11W,
Iron County, Utah
WELL COMPLETION REPORT DUE

WELL NO. Jessies Twist Federal 1-9 Sec. 9, T. 23S, R. 14E, Emery County, Utah June 1978 thru' March 1979 SECOND REQUEST

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-lb, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", on on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Kathy Auda

KATHY AVILA RECORDS CLERK

cc: U.S.G.S.-SLC, UTAH

SCOTT M. MATHESON Governor

GORDON E. HARMSTON

Executive Director,

NATURAL RESOURCES

CLEON B. FEIGHT Director



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STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771

November 15, 1979

Cabot Corporation P. O. Box 1101 Pampa, Texas 79065

RE: Well No. Cedar City Unit #1
Sec. 29, T. 36S, R. 11W
Iron County, Utah
WELL COMPLETION REPORT DUE

Well No. Jessies Twist Federal 1-9 Sec. 9, T. 23S, R. 14E, Emery County, Utah June 79 thur October 79.

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Pratice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. Please note, a negative report is also required. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Delhie Beauregard DEBBIE BEAUREGARD

CLERK-TYPIST

| DED A DES A DES A DES TABLES TO THE COURT OF THE PROPERTY OF THE BUREAU NO. 42-R142 | Form \$-331 (May 1963) | UNITED STATES | SUBMIT IN TRIPATATE | Form approved. |
|--|--|--|---|--|
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| A Section of Control o | | Dry | | S. FARM OR LEASE NAME |
| PO BOX 1101, PAMPA, TEXAS 79065 4. LOCATION OF WILL (Report location clearly and in accordance with any State requirements.* 4. Section of white (Report location clearly and in accordance with any State requirements.* 4. PREMIET NO. 15. REVASTORS (Show whether Dr. RT. OR. etc.) 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INVESTIGATION (Show whether Dr. RT. OR. etc.) 15. REPAIRED WALL. 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INVESTIGATION (Show whether Dr. RT. OR. etc.) 17. RECORDER TRANSPORT OF INVESTIGATION OF INVESTIGATION (Clearly state all pertinent cleating investigation of investigated date of investigation | the second secon | | | 그는 그는 말을 하는 사고 생각하였다. |
| Social Services of Wall. (Report location clearly and in accordance with any State requirements.* 861.9' FSL & 1044.4' FEL 11. Sec. 70.2. N. On REC. APP. 12. COUNTY OF JAMES. 13. SEC. 7. 2. N. On REC. APP. 14. FRENTY NO. 15. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTERPRED TO: THEY WATER SHOT-OFF FULL OR ALTER CARING MULTIPLE COMPLETE REPAIR WATER SHOT-OFF FACTURE TREATMENT ASSEMBLY A | | YAC 70065 | | |
| At surface 861.9' FSL & 1044.4' FEL 11. ***SEC.********************************* | LOCATION OF WELL (Report location c | learly and in accordance with any | State requirements.* | |
| 18. PERMIT NO. 18. PLEVATIONS (Show whether SP, NT, OL, etc.) 18. COUNTY OR PARSING 13. STATE C. COUNTY OR PARSING 13. STATE EMPRY UITAH C. CHECK Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTERPRETARY PRACTURE SHOT-OFF PRACTURE TREATMENT AND STATES CARINO PRACTURE TREATMENT AND STATES CARINO PRACTURE TREATMENT AND STATES CARINO REPORT TREATMENT AND STATES TRAITMENT AND STATES TREATMENT AND STATES TRAITMENT AND STATES TRAITMENT AND STATES TRAITMENT AND STATES | At surface 861 | .9' FSL & 1044.4' FE | L | |
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| Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data **NOTICE OF INTERPEDED TO: **SUBSEQUENT REPORT OF STATEMENT | 4. PERMIT NO. | 15. ELEVATIONS (Show whether Dr | , xt, cz, etc.) | |
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| THET WATER SEUN-OFF PRACTURE TRRAY SHOOT OR ACTIDES LEFAIR WELL (Other) T. DERGRESH POPOSED OS COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. Including seminated date of starting an proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical decide for unlarkers and more pertinent to this work.) P & A as follows: 1. Set cast iron bridge plug at 2717 2. Put 75 sx plug on top bridge plug from 2717 to 2023 3. Set 25 sx plug inside 5 1/2" casing from 40' to 240' 4. Pump 100 sx down annulus between 5 1/2" and 9 5/8" casings 5. Cut off casing head and install marker Interest particular fragility is true and government of the particular fragility is true and government. Agent DATE 11/20/79 | 6. Check Ap | ppropriate Box To Indicate N | lature of Notice, Report, or | Other Data |
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| 5. Cut off casing head and install marker I hereby dripty havely fregoing is true and correct SIGNED Agent DATE 11/20/79 | | | | 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 |
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| I hereby certify that the foregoing is true and correct SIGNED Agent DATE 11/20/79 | 5. Cut off cas | ing head and install | marker | 시 성상 결과 생활형 사실 경우원을 다 |
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| W W Trainer // | SIGNED // MM | TITLE | Agent | DATE: 11/20/79 |
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Form approved. Budget Bureau No. 42-R355.8

5. LEASE DESIGNATION AND SERIAL GEOLOGICAL SURVEY U-15383 6. IF INDIAN, ALLOTTER OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* 12 TYPE OF WELL: WELL GAS WELL DRY X Other . 7. UNIT AGREEMENT NAME L TYPE OF COMPLETION: DEEP-EN DIFF. S. FARM OR LEASE NAME Other 2. NAME OF OPERATOR JESSIE TWIST FEDERAL CABOT CORPORATION 9. WELL NO. 3. ADDRESS OF OFERATOR 1-9 PO BOX 1101, PAMPA, TEXAS 79065 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* WILDCAT At surface861.9' FSL & 1044.4' FEL 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA At top prod. interval reported below SEC. 9, T23S, R14E At total depth 14. PERMIT NO. 12. COUNTY OF 13. STATE DATE ISSUED **EMERY** 16. DATE T.D. REACEED | 17. DATE COMPL. (Ready to prod.) 15. DATE SPUDDED 19. ELEV. CASINGHEAD 18. ELEVATIONS (DF, RES, RT, GR, ETC.)* 5/23/78 7/6/78 8/22/78 4224.5' GL 20. TOTAL DEPTH. MD & TW 21. PLUG, BACK T.D., MD A TVD 22. IF MULTIPLE COMPL., 23. INTERVALS
DRILLED BY BOTARY TOOLS CABLE TOOLS 54461 30031 24. PRODUCING INTERVAL(8), OF THIS COMPLETION-TOP, NOTION, NAME (MD AND TVD)* WAS DIRECTIONAL SURVEY MADE 2862-2888 - water 2750-2768 & 2736-2744 - Water No: 26. TYPE BLECTRIC AND OTHER LOGS BUN 27. WAS WELL CORED BHC-GR-DIL-FDC CNL GR No Yes 23. CASING RECORD (Report all strings set in well) CASING SIES WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE CEMENTING RECORD AMOUNT PULLED 9 5/8" 32.3 7051 14 3/4" 625 sx None 5 1/2" 15.5 30031 100 sx None 29. LINER RECORD TUBING RECORD 30. TOP (MD) BOTTOM (MD) BACKS CHMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SHT (MD) 2 27091 31. PERFORATION RECORD (Interval, size and number) ACID. SHOT. FRACTURE, CEMENT SQUEEZE, ETC. 2862-2888 - 2 holes/ft 1/2" hole DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 2750-2768 - 2 holes/ft 1/2" hole 2862-2888 2500 gal-15% acid + 77,000# 2736-2744 - 2 holes/ft 1/2" hole 10/20 sd water frac 2750-2774 3000 gal-15% acid + 2,000# sand water frac PRODUCTION DATE FIRST PRODUCTION PRODUCTION METROD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing o P & A DATE OF TEST HOURS TESTED CHOER SIZE PROD'N. FOR TEST PERIOD OIL-BBL. GAS--MCF. WATER-BEL. GAS-OIL RATIO CALCULATED 24-HOUR RATE GAS-MCT. WATER-BEL OIL GRAVITY-API (CORR.) 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY 35. LIST OF ATTACEMENTS regoing and attached information is complete and correct as determined from all available records DATE 11/20/79 Agent TITLE

Arrington?

Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions. or both, pursuant to applicable Federal and/or State laws and regulations. and/or State office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see Item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consuit local State Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hem 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, or Federal office for specific instructions.

Item 29:

"Socks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. (See instruction for items 22 and 24 above.) showing the additional data pertinent to such interval item 33: Submit a separate completion report on this form for each interval to be separately produced. for each additional interval to be separately produced,

| DESCRIPTION, CONTENTS, BTC. | NAME NAME TAUGHTE TAUGHTE | 11 2740-2748 | Shinarump | 2720' Rec. 20' Tree oil and Sinbad 2720' 280' H0 & GCM. IHP 2635#. White Rim 2930' | Oregon Rock | FSIP - 1082#, FHP 2635#. Elephant Cany 2710' | | #1 - 5150 to 5164' Recovered | 14' hard lime, no shows. | | | |
|-----------------------------|---------------------------|--------------|-----------|--|-------------|--|-----|------------------------------|--------------------------|--|---|---|
| BOTTOM | | LSO | · | | | | DST | Core | | | | |
| TOP | | | | | | - | | <u>.</u> | - 1 - 2 - - | | · | |
| FORMATION | | | | | | - | - | | | | | • |